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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,912	10/30/2001	Memphis Zhihong Yin	10017897-1	5841

7590 10/05/2005
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O Box 272400
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EXAMINER

WU, XIAO MIN

ART UNIT PAPER NUMBER

2674

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/015,912	YIN, MEMPHIS ZHIHONG	
	Examiner	Art Unit	
	XIAO M. WU	2674	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 July 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3,5-9,11,14-17,19-24,26 and 28-47 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3,5-9,11,14-17,19-24,26 and 28-47 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. In view of the Appeal Brief filed on 7/19/2005, PROSECUTION IS HEREBY REOPENED. A new office action is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief,

but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3, 5-9, 11, 14-17, 19-24, 26, 28-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art (shown in Fig. 1) in view of Cho (US Patent No. 6,081,902).

As to claims 1, 8-9, 16-17, 22, 28, 31, 36, 40, 44, the admitted prior art (Fig. 1) shows a portable computing device (100) comprising: a graphical display (108); a power source (not shown) configured to provide power to operate the graphical display; a

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selectable configured (112) to initiate a shutdown of an operating system running on the portable computing device and to initiate turning off power to operate the portable computing device. For example, when the shutdown control 112 is selected, such as with a mouse or other pointing device, the operating system and any other processing on computer 100 are shut down to a point at which it is safe to turn off the power to computer 100, such as with push-button 110. Typically, an operating system shutdown process can also turn off the power to computer 100 if the system supports a power-off feature. In other word, the prior art shows that the display is still on during the shut down processing, and the power of the display is turned off when the shut down processing is done. The admitted prior art fails to teach a component configured to turn off the graphical display and conserve the power to operate the graphical display when the selectable control is selected and before the shutdown of the operating system running on the portable computing device is initiated.

Cho is cited to teach a shutdown processing for a computer display. Cho discloses that a micro 20 (microcomputer) first sends out a signal to cut off power to a liquid crystal display 70 and then sends out a signal to cut off power to entire system (col. 4, lines 21-24).

It would have been obvious to one of ordinary skill in the art to have modified the admitted prior art for cutting off the power to the display first before the shutdown of the operating system because the shutdown processing as taught by Cho can turn off the display without flickering and after image and thereby illuminating a risk of damaging the liquid crystal display 70. As a result, Cho's shutdown processing allows display stability and extension of lifetime of a display as well as improving display quality (col.

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6, lines 7-15). Furthermore, since the display power is turned off before the shutdown processing, the power is conserved.

As to claims 3, 11, 19, 23, 29, the admitted prior art discloses that the graphical display is configured to display the selectable control (112).

As to claims 5, 21, 26, the admitted prior art discloses that the component is a graphical display controller.

As to claims 6, 14, 20, 24, 30, the admitted prior art discloses that the component is further configured (112) to determine when the selectable control is selected.

As to claims 7, 15, the admitted prior art discloses that the component is a software application configured to determine when the selectable control is selected (e.g. using mouse or other input devices).

As to claims 32-35, 37-39, 41-43 and 45-47, the admitted prior art shows that the shutdown process configured to first turn off the graphical display, second shutdown the operating system and third shut down the computing device.

Response to Arguments

4. Applicant's arguments filed 7/19/2005 have been fully considered but they are not persuasive.

In the final office action (2/23/2005), it is examiner's mistake that the last office action is made final based on the final office action dated 2/10/2004 and it should be based on the non-office action dated 7/12/2004. As shown in the paragraph 5 of the last office action ((2/23/2005), it is understood that the rejection is based on the combination of Cho and Applicant's Fig. 1. The final office rejection is withdrawn based on such mistake.

In applicant's appeal brief, applicant argues that Cho does not indicate any sort of delay between the display power shutdown completion signal and the output of the system power off signal, and accordingly, Cho has not considered or provided any time to shut down an operating system that may be running on a computing device within the few milliseconds after the display has been turned off and before the system power is cut off. This argument is not persuasive because Cho clearly discloses that the display is turned off first and then following the computer system. Once the display shut down processing is completed, the computer would following to turn off the computer system such as to shut down all the operating system of the computer such as all the running computer programs as taught by the admitted prior art as shown in Fig. 1. It is believed that the combination of the admitted prior art and Cho reads on the claimed limitations.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to XIAO M. WU whose telephone number is 571-272-7761. The examiner can normally be reached on 6:30 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, PATRICK EDOUARD, can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you

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have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

X.W.

September 30, 2005

A handwritten signature in black ink, appearing to read 'Xiao M. Wu'.

XIAO M. WU
Primary Examiner
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